

### **Abstract**

A receiver to detect pulses on a home phone wiring network using envelope detection. The receiver comprises an integrating capacitor charged by a first current source responsive to a differential signal propagated on the wiring network, and discharged by a FET in combination with a second current source. The combination of the FET and the second current source allows the capacitor to be quickly discharged in a smooth fashion. An application of this receiver is for a PHY according to the Home Phoneline Networking Alliance.

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